ABSTRACT

Disclosed is an optical transmission system for transmitting a carrier-suppressed RZ (Return to Zero) signal, using duobinary optical transmission technologies. This system comprises a duobinary signal generator and a carrier-suppressed RZ generator. The duobinary signal generator comprises a duobinary precoder, a modulator driver, a Mach-Zehnder interferometer-type optical intensity modulator, a laser light source for generating a carrier wave, and a wide bandpass filter.